the present disclosure may be implemented using existing computer processors, or by a special purpose computer processor for an appropriate system, incorporated for this or another purpose, or by a hardwired system. Embodiments within the scope of the present disclosure include program products comprising machine-readable media for carrying or having machine-executable instructions or data structures stored thereon. Such machine-readable media can be any available media that can be accessed by a general purpose or special purpose computer or other machine with a processor. By way of example, such machine-readable media can comprise RAM, ROM, EPROM, EEPROM, CD-ROM or other optical disk storage, magnetic disk storage or other magnetic storage devices, or any other medium which can be used to carry or store desired program code in the form of machine-executable instructions or data structures and which can be accessed by a general purpose or special purpose computer or other machine with a processor. Combinations of the above are also included within the scope of machine-readable media. Machine-executable instructions include, for example, instructions and data which cause a general purpose computer, special purpose computer, or special purpose processing machines to perform a certain function or group of functions.

[0153] Although the figures show a specific order of method steps, the order of the steps may differ from what is depicted. Also two or more steps may be performed concurrently or with partial concurrence. Such variation will depend on the software and hardware systems chosen and on designer choice. All such variations are within the scope of the disclosure. Likewise, software implementations could be accomplished with standard programming techniques with rule based logic and other logic to accomplish the various connection steps, processing steps, comparison steps and decision steps.

What is claimed is:

1. A system for monitoring and controlling building equipment, the system comprising:

a near field communications (NFC) tag located within a building space and storing a tag ID uniquely identifying the NFC tag;

a temperature sensor associated with the building space and configured to measure a temperature of the building space, the temperature measured by the temperature sensor defining a zone temperature;

a mobile device configured to communicate with the NFC tag, wherein the mobile device reads the NFC tag and obtains the tag ID from the NFC tag via NFC;

a controller in communication with the mobile device, wherein the controller receives the tag ID from the mobile device and uses the tag ID to identify the temperature sensor associated with the building space, wherein the controller receives the zone temperature from the temperature sensor and provides the zone temperature to the mobile device;

wherein the mobile device displays the zone temperature via a user interface of the mobile device.

2. The system of claim 1, further comprising a control application running on the mobile device, wherein the control application displays the zone temperature and allows a user to adjust a setpoint for the zone temperature via the user interface of the mobile device;

wherein the mobile device sends the adjusted setpoint to the controller and the controller uses the adjusted setpoint to control building equipment associated with the building space.

3. The system of claim 2, wherein the NFC tag stores a location of the control application and the mobile device obtains the location of the control location from the NFC tag via NFC;

wherein the mobile device uses the location of the control application to download and install the control application, the control application configuring the mobile device to communicate with the controller.

4. The system of claim 1, further comprising a locations database storing an association between the tag ID and the building space in which the NFC tag is located;

wherein the controller uses the stored association between the tag ID and the building space to determine that the mobile device is located within the building space.

5. The system of claim 4, wherein the locations database stores an association between the building space and the temperature sensor;

wherein the controller uses the stored association between the building space and the temperature sensor to identify the temperature sensor associated with the building space.

6. The system of claim 1, wherein the NFC tag comprises an integrated temperature sensor configured to measure a temperature of the building space at a location of the NFC tag, the temperature measured by the integrated temperature sensor defining a tag temperature.

7. The system of claim 6, wherein the NFC tag is a passive NFC tag that becomes energized by the mobile device when the mobile device reads the NFC tag;

wherein the integrated temperature sensor measures the tag temperature in response to the NFC tag becoming energized by the mobile device.

8. The system of claim 6, wherein the NFC tag provides the tag temperature to the mobile device via NFC when the mobile device reads the NFC tag;

wherein the mobile device displays the tag temperature via the user interface of the mobile device

9. The system of claim 8, wherein the mobile device sends the tag temperature to the controller and the controller uses the tag temperature to control building equipment associated with the building space.

10. The system of claim 1, wherein the NFC tag comprises one or more integrated sensors including at least one of a temperature sensor, a humidity sensor, an oxygen sensor, a pressure sensor, and an accelerometer;

wherein the NFC tag uses the one or more integrated sensors to measure at least one or a temperature, a humidity, an oxygen level, a pressure, and an acceleration at a location of the NFC tag when the NFC tag is energized by the mobile device.

11. The system of claim 1, wherein the NFC tag is located within a wall of the building space and comprises an integrated humidity sensor configured to measure a humidity within the wall when the NFC tag is energized by the mobile device;

wherein the NFC tag provides the measured humidity to the mobile device via NFC when the mobile device reads the NFC tag.

12. A system for monitoring and controlling building equipment, the system comprising: